

# SEQUENCE LISTING

<110> Bristol-Myers Squibb Company  
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 Hendrick, Joseph  
 Vinitsky, Alexander

<120> ISOLATION OF FUNCTIONALLY ACTIVE GAMMA-SECRETASE PROTEIN COMPLEX AND  
 METHODS FOR DETECTION OF ACTIVITY AND INHIBITORS THEREOF

<130> D0004 DIV

<140> 09/823,153

<141> 2001-03-30

<160> 11

<170> PatentIn version 3.0

<210> 1

<211> 354

<212> DNA

<213> Human Beta App

<400> 1

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gatgtggggtt caaacaaagg tgcaatcatt ggactcatgg tgggcgggtgt tgtcatagcg      180
acagtgatcg tcatcacctt ggtgatgctg aagaagaaac agtacacatc cattcatcat      240
ggtgtggtgg aggttgacgc cgctgtcacc ccagaggagc gccacctgtc caagatgcag      300
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Gln Lys Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala
35           40           45
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Ile Ile Gly Leu Met Val Gly Gly Val Val Ile Ala Thr Val Ile Val  
 50 55 60

Ile Thr Leu Val Met Leu Lys Lys Lys Gln Tyr Thr Ser Ile His His  
 65 70 75 80

Gly Val Val Glu Val Asp Ala Ala Val Thr Pro Glu Glu Arg His Leu  
 85 90 95

Ser Lys Met Gln Gln Asn Gly Tyr Glu Asn Pro Thr Tyr Lys Phe Phe  
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Glu Gln Met Gln Asn  
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 gtgggcgggtg ttgtcatagc gacagtgatc gtcacacact tggatgatgct gaagaagaaa 180  
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Ala Leu Asp Ala Glu Phe Val Phe Phe Ala Glu Asp Val Gly Ser Asn  
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Lys Gly Ala Ile Ile Gly Leu Met Val Gly Gly Val Val Ile Ala Thr  
 35 40 45

Val Ile Val Ile Thr Leu Val Met Leu Lys Lys Lys Gln Tyr Thr Ser  
 50 55 60

Ile His His Gly Val Val Glu Val Asp Ala Ala Val Thr Pro Glu Glu  
 65 70 75 80

Arg His Leu Ser Lys Met Gln Gln Asn Gly Tyr Glu Asn Pro Thr Tyr

	85	90	95
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20 25 30

Tyr Glu Arg Asp Glu Gly Asp Lys Trp Arg Asn Lys Lys Phe Glu Leu

35					40					45					
Gly	Leu	Glu	Phe	Pro	Asn	Leu	Pro	Tyr	Tyr	Ile	Asp	Gly	Asp	Val	Lys
50					55					60					
Leu	Thr	Gln	Ser	Met	Ala	Ile	Ile	Arg	Tyr	Ile	Ala	Asp	Lys	His	Asn
65					70					75					80
Met	Leu	Gly	Gly	Cys	Pro	Lys	Glu	Arg	Ala	Glu	Ile	Ser	Met	Leu	Glu
				85					90					95	
Gly	Ala	Val	Leu	Asp	Ile	Arg	Tyr	Gly	Val	Ser	Arg	Ile	Ala	Tyr	Ser
			100					105					110		
Lys	Asp	Phe	Glu	Thr	Leu	Lys	Val	Asp	Phe	Leu	Ser	Lys	Leu	Pro	Glu
		115					120					125			
Met	Leu	Lys	Met	Phe	Glu	Asp	Arg	Leu	Cys	His	Lys	Thr	Tyr	Leu	Asn
	130					135					140				
Gly	Asp	His	Val	Thr	His	Pro	Asp	Phe	Met	Leu	Tyr	Asp	Ala	Leu	Asp
145					150					155					160
Val	Val	Leu	Tyr	Met	Asp	Pro	Met	Cys	Leu	Asp	Ala	Phe	Pro	Lys	Leu
				165					170					175	
Val	Cys	Phe	Lys	Lys	Arg	Ile	Glu	Ala	Ile	Pro	Gln	Ile	Asp	Lys	Tyr
			180					185					190		
Leu	Lys	Ser	Ser	Lys	Tyr	Ile	Ala	Trp	Pro	Leu	Gln	Gly	Trp	Gln	Ala
	195					200					205				
Thr	Phe	Gly	Gly	Gly	Asp	His	Pro	Pro	Lys	Ser	Asp	Leu	Val	Pro	Arg
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<223> Description of Artificial Sequence: PS1 PEPTIDE

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Thr	Arg	Leu	Leu	Leu	Glu	Tyr	Leu	Glu	Glu	Lys	Tyr	Glu	Glu	His	Leu
		20					25					30			

Tyr Glu Arg Asp Glu Gly Asp Lys Trp Arg Asn Lys Lys Phe Glu Leu

35					40					45					
Gly	Leu	Glu	Phe	Pro	Asn	Leu	Pro	Tyr	Tyr	Ile	Asp	Gly	Asp	Val	Lys
50					55					60					
Leu	Thr	Gln	Ser	Met	Ala	Ile	Ile	Arg	Tyr	Ile	Ala	Asp	Lys	His	Asn
65					70					75					80
Met	Leu	Gly	Gly	Cys	Pro	Lys	Glu	Arg	Ala	Glu	Ile	Ser	Met	Leu	Glu
				85					90					95	
Gly	Ala	Val	Leu	Asp	Ile	Arg	Tyr	Gly	Val	Ser	Arg	Ile	Ala	Tyr	Ser
			100					105					110		
Lys	Asp	Phe	Glu	Thr	Leu	Lys	Val	Asp	Phe	Leu	Ser	Lys	Leu	Pro	Glu
		115					120					125			
Met	Leu	Lys	Met	Phe	Glu	Asp	Arg	Leu	Cys	His	Lys	Thr	Tyr	Leu	Asn
	130					135					140				
Gly	Asp	His	Val	Thr	His	Pro	Asp	Phe	Met	Leu	Tyr	Asp	Ala	Leu	Asp
145					150					155					160
Val	Val	Leu	Tyr	Met	Asp	Pro	Met	Cys	Leu	Asp	Ala	Phe	Pro	Lys	Leu
				165					170					175	
Val	Cys	Phe	Lys	Lys	Arg	Ile	Glu	Ala	Ile	Pro	Gln	Ile	Asp	Lys	Tyr
			180					185					190		
Leu	Lys	Ser	Ser	Lys	Tyr	Ile	Ala	Trp	Pro	Leu	Gln	Gly	Trp	Gln	Ala
		195					200					205			
Thr	Phe	Gly	Gly	Gly	Asp	His	Pro	Pro	Lys	Ser	Asp	Leu	Val	Pro	Arg
	210					215					220				
Gly	Ser	Leu	Phe	Pro	Ala	Leu	Ile	Tyr	Ser	Ser	Thr	Met	Val	Trp	Leu
225					230					235					240
Val	Asn	Met	Ala	Glu	Gly	Asp	Pro	Glu	Ala	Gln	Arg	Arg	Val	Ser	Lys
				245					250					255	
Asn	Ser	Lys	Tyr	Asn	Ala	Glu	Ser	Thr	Glu	Arg	Glu	Ser	Gln	Asp	Thr
			260					265					270		
Val	Ala	Glu	Asn	Asp	Asp	Gly	Gly	Phe	Ser	Glu	Glu	Trp	Glu	Ala	Gln
		275					280					285			
Arg	Asp	Ser	His	Leu	Gly	Pro	His	Arg	Ser	Thr	Pro	Glu	Ser	Arg	Ala
	290					295					300				
Ala	Val	Gln	Glu	Leu	Ser	Ser	Ser	Ile	Leu	Ala	Gly	Glu	Asp	Pro	Glu
305					310					315					320
Glu	Arg	Gly	Val	Lys	Leu	Gly	Leu	Gly	Asp	Phe	Ile	Phe	Tyr	Ser	Val
				325					330					335	
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 Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys Gly Ala Ile Ile  
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 Gly Leu Met Val Gly Gly Val Val Ile Ala Thr Val Ile Val Ile Thr  
 35 40 45  
 Leu Val Met Leu Lys Lys Lys  
 50 55  
  
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 Met Tyr Val Ala Ala Ala Ala Phe Val Leu Leu Phe Phe Val Gly Cys  
 20 25 30  
 Gly Val Leu Leu Ser Arg Lys Arg Arg  
 35 40